denver apple pi Seed

Volume 6 No.3 Mar. 84

NEWSLETTER OF THE DENVER APPLE PI COMPUTER USERS' CLUB

Daisy wheel Quality on an Epson Dot Matrix Printer !!!!

Review by: Gale McClish

Is it possible to get daisy wheel quality on an Epson RX-80 printer? Judge for yourself!! This hardware review was printed using an Epson RX-80 and the Super-MX interface card manufactured by:

Spies Laboratories
P.O. Box 336
Lawndale CA 90260
(213) 664-0056

There are 5 optional font styles which are available as EPROM's. They are illustrated on the facing page.

Installation is straight forward and simple, just plug the card into slot #1 and the cable into your Epson and you are ready to print. The Epson dip-switch settings may have to be changed on other models of the Epson Printer, but for the RX-80, the factory settings were correct. These settings are: for SW-1; switches 1,2,3,4 and 5 are off and switches 6,7,and 8 are on. The Spies documentation on the setting of dip switches could be easier to understand.

The Super-MX card recognizes all of the standard Apple and Epson printer card commands, so that no changes to existing software are required to use the card.

There are two ways to control the action of the Super-MX interface card. The easiest way is to:

1. Turn the Epson on and then press the ON LINE switch, the READY light will go out.

2. Proceed to instruct your program or software package to start printing.

3. Your Apple will "boop" (as opposed to "beep"). At this time the Super-MX card is waiting for a command from the Apple keyboard. Type the letter H for Pica spacing, (10 spaces to the inch), or the letter C for Elite spacing (12 spaces to the inch).

4. Press the ON LINE switch on the Epson, the READY light will come on, and printing will comence in the high quality print mode.

I especially like this feature since I can use the regular high speed Epson print mode for all rough drafts of a document and then when the final copy is ready to print I can switch to the high quality print mode at the touch of two buttons. When running protected program this feature will allow you to use the high quality mode without the need to change the printer control strings within the protected program. switches

GOTO 5

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DENVER, COLORADO 80217

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ADVERTISING RATES

$20.00 . . . . . ¼ Page
$35.00 . . . . . ½ Page
$60.00 . . . . . Full Page

CIRCULATION OVER 600

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GENERAL MEETING · · · 1st

SWAP MEET · · · 4th

BOARD MEETING · · · 7th

MEMBERSHIP INFORMATION
$10 APPLICATION FEE AND $18 PER YEAR DUES

APPLE PI is an Apple Computer Users Group - not affiliated with Apple Computer, Inc. - that provides many member benefits, some of which are:

MONTHLY MEETINGS-

On the first Thursday of each month at 7:00 p.m. APPLE PI holds its general meeting at the Greene Center, Colorado School of Mines Campus, Golden, Colorado. This meeting is a combination of an informational meeting, new product announcements, and a short business meeting. The members are given an opportunity to buy computer supplies a little above cost. Software products are given away as door prizes.

On the Sunday following the general meeting there is an informal meet which is usually held at the home of a member, the location of which is announced in the newsletter and at the general meeting. This meeting is from 10:00 a.m. until 3:00 p.m. and provides a more informal environment to seek or give advice to fellow members and get copies of programs from the APPLE PI Library. Both of these meetings are open to the general public but only members have access to products that are sold.

PROGRAM LIBRARY-

APPLE PI currently has a library of 8,000 programs. All current disks are in 16 sector (3.3, Pascal, CP/M) format and are available to any member. APPLE PI Members can obtain copies from the library:

1) By coming to the monthly informal meeting (swap meet);
2) By written request to the club librarian (at any meeting or by mail);
3) By electronic mail on APPLE PI's bulletin board system:

When requesting copies, please include the following information:

a) Your Name, Address, and Phone number;
b) Disk Category and Volume Number;
c) Blank Diskette(s) or request to utilize a new disk (member will be charged $2.50 for the new disk);
d) Copy fee ($1.00 per diskette side unless you donate a program you have written at the same time and fill out a Progam Submission Form). Only complete sides of disks will be copied.
e) Instructions on how the disks are to be returned, i.e., at the next meeting, by mail, etc. (IF RETURN IS TO BE BY MAIL PLEASE BE SURE TO INCLUDE A STAMPED, SELF-ADDRESSED FLOPPY DISK MAILER, AND $2.50 TO COVER SHIPPING COSTS).

DISK OF THE MONTH-

Each month a collection of some of the best programs donated to APPLE PI during the preceding month are made available. The DOM can be purchased at any group meeting or by mail.

DUES-

Current membership dues are $18.00 per year, with a one-time application fee of $10.00. Checks should be made payable to APPLE PI.

NEW DISK

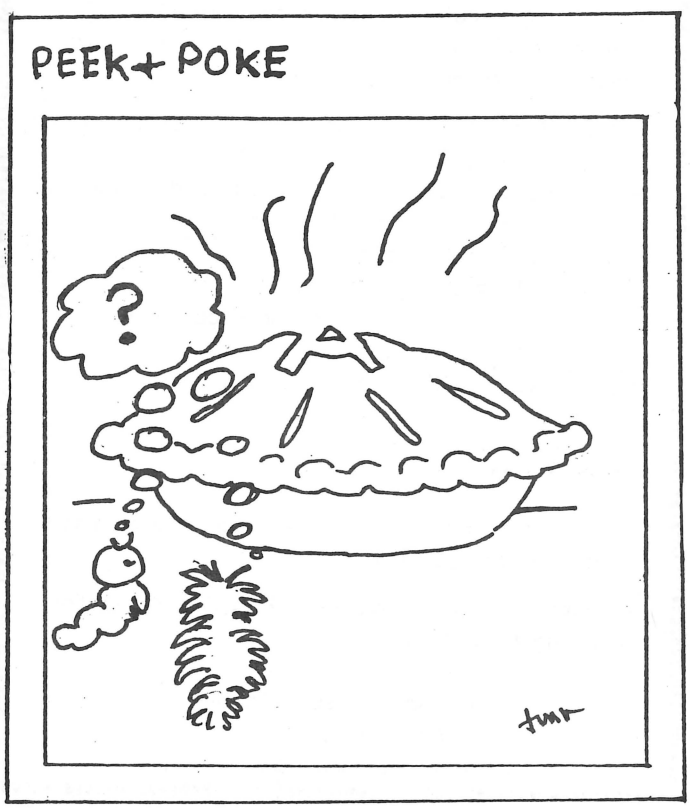
Micro Management Services, Inc. of Littleton Anouced this month that it will be the Colorado distributor for OMNI Resources Corporation.

OMNI Resources of Millbury, Mass. manufacturers floppy disks and untill now has sold in the eastern states..

OMNI has just introduced it's new "INTELLIGENT DISK", a disk that has temperature and humidity sensors on it. Doran Moore, Presedent of Micro Management Services believes that this new disk will be the standard for computer disk comparison.

These new disks are certified error free at 65% clipping levels and are guaranteed forever in materials and workmanship.

For more information on OMNI disks call Mr. Moore at 795-5799. If you would like to see this new disk see Randy (Ed.) at the next meeting.



JOHNNY APPLESEED

Dear John,

I have heard that if I don't boot a DOS disk befor I write a program that I can still save the program by typing in "3DOG" and DOS will work. I have tryed this but I can't get it to work. Can you tell me what I am doing wrong?

Mr. Nogot Dos

Dear Nogot,

In order to use your disk you must have a DOS program in memory. The 3DOG that you are trying is a way to re-hook DOS if you crash a program and DOS is also lost (it works most of the time). If DOS has not been booted at all and you really need to save what you have try saving to tape (ports in back of computer), booting a DOS disk, re-loading program from tape then saving to disk.

Dear John,

I have the need to save a program on some write protected disks (never notched at the factory). Is there a way that I can disconnect the write protect switch in my disk drive?

Notchless

Dear Notchless,

You can buy a kit that will let you bypass the write protect switch to write on all disks, not write on any disks or act normal by using the write protect tabs. The kits sell for $15 to $20. If you want to do it the easy way bring your disks to an Apple Pi swap meet and find Bob Vitry. He will install a switch for you (parts and all) for only $17.50.

Johnny Appleseed
%Apple Pi/Denver
P.O. Box 17467
Denver, CO 80217-0467

SECRETARY'S REPORT

(February Meeting)

President Dave Eisler called the meeting to order at 7:00pm, February 2, 1984 at the Greene Center, Colorado School of Mines. In his opening remarks he cited the Club's need for teacher volunteers, noted that a proposed budget for 1984 had been published in the SEED, that Ron Stock was currently working on the Club's taxes and that the Bylaw Committee, headed by Tom Angelos, had met to revise the preliminary draft for the new bylaws.

There followed an election to replace officers as necessary.

-- Bob Hein as Treasurer to replace Dennis Lunt who resigned.
-- Trent Hein as Librarian to replace Bob Hein who resigned.
-- Randy Ansley as Editor to fill the vacancy created when Frank Reeves was removed.

(In each instance there were no additional nominations from the floor, and the Board recommendations were approved)

Trent Hein demonstrated the Disk of The Month, and announced a spelling program which he had written. Trent's program has a dictionary of over 20,000 words (and is expandable) and will work with most wordprocessors. He is selling it for $25.00.

Trent also announced the Club contest for the Most Valuable Software donated to the club. The first prize for which will be $100. in Club merchandise.

The program was turned over to Dick Walker of APPLE who introduced his colleagues: Dr. Fred Jurgemeyer, Karl Flygere, Alan Gibson, Dick Gorman, Scott Waters and Mike Olsen. Together they demonstrated the new MacIntosh computer and several other new APPLE products including: the XY plotter, the Apple II mouse (and MousePaint), IIe ProDOS, Dual Disk drive, the Monitor II, APPLE's new Spreadsheet, and the new line of LISAs. Their demonstrations were followed by a video program showing the development of the MacIntosh and various commercials which either have been shown or are scheduled to be shown on TV.

The evening's door-prizes were all furnished by APPLE, and were drawn from the membership list via a computer program. The winners and their prizes were:

Barbara Reiter	MacIntosh T Shirt
Edward schiffmacher	Superfan
Kathy Turner	Superfan
Trent Hein	Apple Cross Pen
Les Shaw	Screenwriter
Clem Todd	Apple Pascal Manual
Al Tara	Apple Solution Folio
Gary Dennis Peters	MacIntosh T Shirt
Paul Schlein	Desktop Plan for ///
	APPLE /// Pascal
Glenn Snyder	Applesoft Tutorial
Joe Bridges	Apple Printer Manual
	Apple Integer Card
Brett Vitnel	Desktop Plan
Bob Bigelow	Supermod
James White	Apple II Disk Lover
Bob Branch	MacIntosh T Shirt
Bobbi Shanahan Nelson	Applesoft Tutorial
Ed McCullough	Apple IIe Manual
	Pascal Manual
	Buyers Guide
Joe Abey	Buyers Guide
Herd Clark	Apple IIe Mouse

Following the awards, questions were taken from the floor and then the members were invited to look more closely at the products on display and try some of them.

INTRODUCING...

Peter Proofreader

A spelling-proofreading program priced to fit the needs of today's computer user. Here are some features of Peter Proofreader:

--> 25,000 word initial reference dictionary (expandable)
--> Compatible with all standard word-processors
--> Displays errors in their context
--> ¼ the price of competitors
--> Uses 1 or 2 disk drives
--> Understands popular embedded commands
--> Handles files up to 64k in size
--> Allows immediate editing of misspelled words

... and more

Peter Proofreader is the spelling program that helps you look better.

To purchase your copy, send $25.00 + $2.25 for shipping & handling to:

Snowbound Technologies
11735 west 72nd Place
Arvada, Colorado 80005-3204

PRINTER CONT.

The second method of control involves the use of commands that are imbedded within the text that is to be printed. This allows you to control the print style and all of the Epson printer control commands from within word processing and spreadsheet software packages.

HIRES graphics dumps and text page dumps can be made either from within a program or from keyboard commands. The graphics mode operates like the Grappler interface card from Orange Micro.

Graphics capabilities include: page dumps, 90 degree rotation, double size, emphasized, inverted, dump with text, side by side dumps and setting of the left margin.

In addition to use within Applesoft both the SUPER-MX modes as well as all the normal Epson modes can be invoked from within CP/M and Pascal.

If you have an Epson printer and want the best possible quality print, try the SUPER-MX card from Spies Labs. At $175 for the basic card and $30 for each EPROM with 2 fonts it is a reasonable way to get correspondence quality printing without buying a new printer.

SAMPLE PRINTOUT FROM THE SUPER-MX CARD.

ROMAN FONT
PICA: !"#$%&'( )*+,-./0123456789:;<=>?
@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_'abcd
efghijklmnopqrstuvwxyz{|}^■

LETTER GOTHIC:
PICA: !"#$%&'( )*+,-./0123456789:;<=>?
@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_'abcd
efghijklmnopqrstuvwxyz{|}^■

ORATOR LARGE:
PICA: !"#$%&'( )*+,-./0123456789:;<=>?
@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_'abcd
efghijklmnopqrstuvwxyz{|}^■

SCRIPT:
PICA: !"#$%&'( )*+,-./0123456789:;<=>?
@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_'abcd
efghijklmnopqrstuvwxyz{|}^■

OLDE ENGLISH:
PICA: !"#$%&'( )*+,-./0123456789:;<=>?
@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_'abcd
efghijklmnopqrstuvwxyz{|}^■

For comparison, here are all of the normal size (10 characters per inch) Epson print modes:
Here is the normal print mode. You can see every dot.
This is emphasized mode. Kind of thick and striped.
This is double strike mode. The dots are still quite plain.
This is double strike/emphasized. No dots but too chunky.
And here we are in SUPER-MX card high quality mode.
This is ELITE (12 characters per inch) spacing which is otherwise unavailable on the Epsons.

ALL word processors (even Apple Writer) can use all normal Epson print modes including SUPERSCRIPTING SUBSCRIPTING, COMPRESSED, DOUBLE WIDTH, *ITALICS and more!!*

TREASURER'S REPORT

January 1, 1984 to January 31, 1984

Beginning Balance (1/1/84)	$ 66.17
INCOME	
New Memberships	$ 868.00
Renewal Memberships	288.00
DOM Sales	460.00
Library Copies	142.00
Sales of Supplies	4276.00
Collection on Bad Checks	148.00
Store memberships	300.00
Interest Earned	15.40
Sales Tax Accrual	64.00
TOTAL	$ 6561.40
EXPENSES	
Supplies for Resale	$ 2313.47
CSM Room Rental	0.00
Printing Costs	780.00
Postage	228.84
Supplies	294.67
A.P.P.L.E. disks for library	220.00
Sales Tax (June - Dec)	819.40
TOTAL	$ 4656.38
LIABILITIES	
CSM February Hall Rental	140.00
TOTAL	$ 140.00
ASSETS	
Supplies for Resale a/o 1/31/84	$5810.82
Cash	2375.76
TOTAL	$8186.58
CLUB NET WORTH a/o 1/31/84	$8186.58

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SOFTWARE CLASS

INTRO. TO SPREADSHEETS

DATE: SATURDAY, MARCH 10, 9AM - 4 PM
PLACE: RAMADA INN - I-70 & KIPLING
FEE: APPLE PI MEMBER $10.00
NON-MEMBER $15.00
PAYABLE AT TIME OF REGISTRATION
INSTRUCTOR: Bob Hein
CLASS SIZE: 10 MINIMUM, 25 MAXIMUM
EQUIPMENT REQUIRED: APPLE II+, IIe, W/ 64K OF MEMORY, MONITOR, ONE DISK DRIVE, AND 2-3 BLANK INITIALIZED DISKS.

CONTACT BOB HEIN DIRECTLY FOR REGISTRATION

Apple *//e* Corner

A few hints & tricks for your Apple //e

If you are writing programs on an Apple //e you may want to use lower case for some output to the screen. If you've got it why not flaunt it. The problem is that Apple][and][+ don't understand lower case. If you use lower case, your programs will not work on][and][+ computers. One way around this is problem is to write two sets of output for the screen, one in lower case and one in Caps. This text may be kept in subroutines. To know what version to call use this :

```
100  IF PEEK (-637) = 255 THEN GOSUB
1000
110 GOSUB 2000

1000 REM //E VERSION

2000 REM ][, ][+ VERSION
```

Location -637 will tell your program what type Apple // you are using. The values are 255 for //e, 223 for][and][+, and 234 for Apple clones.

Do you use POKE 36 ? If you are using the 80 column card don't use POKE 36 or HTAB for anything over 40 columns. Use POKE 1403,xx (xx = tab) to get true 80 column HTABing.

If you are in the 80 column card the following characters may do bizarre things if you use them:

^K, ^L, ^N, ^O, ^Q, ^R, ^U, ^V, ^W, ^Y, ^Z, ^\, and ^]

These are special screen control caracters for the 80 column card.

If you have found things on the //e that you would like to tell the other members please let us know so we can put it in the Seed.

LIBRARIAN'S REPORT

February was a great month for DOM sales...we sold over 100 disks-of-the-month in February!!! I realize that some of you were unable to purchase a February DOM because we ran short. More copies will be available at the March meeting if you didn't get to purchase one or you wish to purchase a second one.

Our March DOM is also very good. It contains lots of utilities. Here it is:

Denver's Apple Pi Disk of the Month

#044 MARCH '84 DOM

HELLO APPLE-	HELLO APPLE-	HELLO APPLEC	HELLO APPLES	HELLO APPLES
HELLO BILLBO	HELLO CAC 1	HELLO CAC 2	HELLO CAC.X	HELLO KELTZ
HELLO MELS	HELLO SAMPLE	HELLO SELECT	CPU 6502	RANDOM DRILL
TOP DOWN PRO	BUDGET ANALY	BUDGET EDIT	BUDGET INPUT	BUDGET PLOT
BUDGET TRACK	CHECK BOOK	CHECK BOOK I	CHECK BOOK.X	APPEND FILE
CATALOG SORT	DEBUGGING AI	DECIMAL POIN	DUMP TRACK A	FREE SECTORS
MEMORY CHECK	RECOVER LOST	REMOVE STRIN	YES NO AND P	WORD SEARCHE
JUPITER MOON	JUPITER.X	JUPITER.Y	SUNRISE AND	

Keep in mind, our Most Valuable Program (MVP) contest is under way. Be sure to get your entries in on or before the April General Meeting (only one month to go!!)

Remember: you don't have to enter the contest to contribute to the library!! We welcome contributions anytime.

---> Trent Hein, Librarian <---

DISK WRITE PROTECTION OVERRIDE

Switches to override the write protect device are being offered to members in the club by BOB VITRY. A handy tool if you use both sides of your disks. Cost is $17.50 per drive. See Bob at any meeting or call him at 425-5914.

INCOME TAX PREPARATION PACKAGE

TAXPAK-83 is an interactive tax preparation program designed for home use. TAXPAK-83 takes the unpleasant task of filling out income tax forms and makes it more enjoyable. The program guides you through the preparation of IRS Form 1040, and Schedules A, B & G, by presenting an on-screen facsimile of the IRS form along with prompts for input. Its full-screen editing capability allows you to easily correct previous entries, and to skip entries that need no changes. Information is entered or changed by simply moving the cursor to the desired line of the form and typing in the appropriate information. All sub-totals and tax computations are done automatically of course, and updated continuously.

A unique feature of TAXPAK-83 is that the bottom line of the display is used as a status line. The status line presents instantaneously updated statistics on your tax return after each line of input. This enables you to see the effect of each line of input on the final result, and encourages what-if type interaction. If you qualify for Income Averaging, your tax will be computed both ways, and the one that gives you the best advantage will automatically be used. A partially completed form may be stored on disk, and recalled at a later time for editing or for further entries. When you are done, the program will print completed forms in a format that can be submitted directly to the IRS. The program is fully menu-driven, and all input is error-trapped for ease of use. It will run on Apple II, II+, or IIe with 48k and one disk.

TAXPAK-83 costs only thirty tax-deductable dollars. It will be available at the APPLE PI meeting, or may be ordered by calling Frank Sommer at 642-0101.

MOST VALUABLE PROGRAM CONTEST

Apple Pi will be sponsoring a Most valuable program contest. All members are invited to enter their original programs. Programs will be judged at the April Swap meet. All entries must be in by the April General Meeting.

Rules:

One entry per paid membership
Program must be at least 15 lines long
Must be written in Applesoft, Integer BASIC, or 6502 machine
Software must be original, and have never been contributed to the library previously

Judging:

Programs will be judged by members for originality and USEFULNESS. Programs will NOT be judged on programming style or length of program

Prizes:

1st Place: $100 Apple Pi gift certificate
2nd Place: Complete set of DOMs
3rd Place: Locking diskette storage case

All other entries receive a free DOM

Remember: Everyone can enter! This contest is open to ALL members! Start your programs...GO!

(All entries become the property of Apple Pi, Inc., and cannot be returned) Information subject to change.

BUG OF THE MONTH

This month the BUG OF THE MONTH goes to the the Seed editor for failing to put our new store member "The Neighborhood Computer Store" in the last Seed. When you are in the neighborhood stop in and say "HI".

Thank you!

THE COMPUTER LINE
1136 S. Colorado Blvd.
Denver, CO 80222
(303) 758-3261

COLORADO COMPUTER SYSTEMS
3005 W. 74th Ave.
Westminster, CO 80030
(303) 426-5880

COMPUTERLAND OF DENVER
2422 S. Colorado Blvd.
Denver, CO 80222
(303) 759-4685

COMPUTERLAND OF NORTH DENVER
8749 Wadsworth Blvd.
Arvada, CO 80003
(303) 420-1877

THE NEIGHBORHOOD
Computer Store Inc.
13045 W. Alameda Parkway
Lakewood, CO 80228
(303) 988-9140

ALGORITHMS — SINK SORT

by Andre' van Meulebrouck

Why do they call that popular, quick and dirty sorting method the "bubble sort"? You know, that much maligned sorting method that we all should be able to cough up on demand from memory. Everyone pans it in bench mark tests -- it gets laughed at alot, but, when we write programs that "nobody's gonna see", we all use it! When all is said and done, nothing is easier to write when a sort is needed, and the simpler an algorithm, the easier it is to debug it and assure reliability. Everyone talks about efficiency, but in reality computability is more important -- at least until something is up and running. Besides, those fast sorting routines sometimes take more code and thinking to set up -- more over-head than is worthwhile for most of the computing done on micros.

So anyway, why do they call it the "bubble sort"? Ever think of it? It doesn't make sense! In each pass, lighter weighted objects rise, but the only thing that is absolutely sure to happen every time during one pass is to have the very heaviest object sink to the very bottom where it belongs. (Run thru some examples and convince yourself!). If you have ever gone scuba diving, you would be more impressed by how fast a metal object (like a weight belt) will reach the bottom of the ocean (if you could see it), while a bubble meanders its way to the top -- eventually. Or gold panning -- the gold drops out much more quickly than the lightest sands come to the top! Gravity causes sinking or dropping objects to move faster than rising ones more often than the reverse -- so why not call the bubble sort "the sink sort" instead? It describes the action of the algorithm much better -- or do I just think backwards compared to everyone else??? I did get accussed of that when I wrote a sort routine in LISP for school. The assignment specs clearly stated the sort must be a bubble sort, and one of my fellow students told me I had violated the guidelines and created a perversion that could only be called "a sink sort?!?!" because I think backwards, and like to do everything differently from everyone else in class to gain the dubious distinction of having the most unusual, original or different solutions! Well, I admit an aversion to using the same algorithms as the consensus -- and sometimes it's hard to keep from appearing to be one who saw which way everyone was going and then jumped on the bandwagon! However, when I really thought about it, I realized that a true bubble sort is really a sinking type algorithm -- it's just that noone looks at it like that. So, the only thing I had done differently from the text-book bubble sort was to add in a deviation based on my observation of the sinking effect that I noticed after playing computer on my functions while writting them. (Of course, in LISP there were other deviations -- I was "faking" my switches -- I wasn't actually switching anything, but rather making my recursive calls in different orders based on trial comparisons so that when the recursive calls unwound themselves (after bottoming out) they would reconstruct the list in the properly weighted order. The same could possibly be done in Logo too, but I don't know for sure.).

Anyway, the thing I noticed (and I really don't know if other people have noticed it -- I would certainly think someone has -- I just haven't seen it published anywhere before) is this: since the heaviest object sinks out, there is no reason to check it the next time thru! And the time afte that, there is still one less element to check! So, the number of elements

SORTS .....

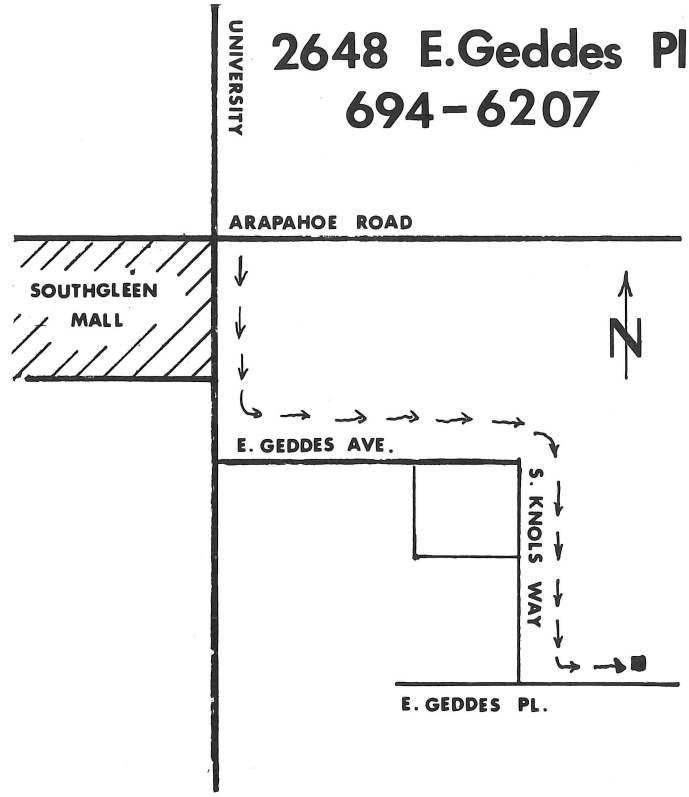
to check in a for loop can be decremented each time. Example:

```
5 true = 1:false = 0
10 lastcells = TOTAL number of elements
20 lastcells = lastcells - 1
30 sorted = true
40 for i = 1 to lastcells
50 if a$(i) > a$(i+1) then
     swap a$(i), a$(i+1):
     sorted = false
60 next i
70 if sorted = false then 20
```

And that's it! Still very simple yet more efficient than the standard bubble sort. Think about it! (By the way, the swap command is not a valid Applesoft command -- I took it from the PC version of Basic because while it is not Apple, it makes my example easier to follow).

"SWAP" Meet

2648 E.Geddes Pl.
694-6207



DISK OF THE MONTH ORDER FORM

This form is for those members who are unable to attend the next meeting of Apple Pi and would like to purchase a DOM via mail. DOMs will still be available at the monthly meeting and swap meet. It is also possible to order past DOMs.

CIRCLE THE APPROPRIATE DOMs THAT YOU ARE ORDERING

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC

1980 1981 1982 1983 1984 1985

[ ] DOS 3.3 [ ] Pascal [ ] CP/M

QUANTITY	ITEM	UNIT PRICE	TOTAL
_____	DOMs marked above	$5.00 ea	_____
	Postage and Floppy Mailer	$1.25 ea	1.25
		TOTAL	_____

NAME_____

ADDRESS_____ CITY,ST_____

ZIP_____ PHONE _____

Send form to Apple Pi, P.O. Box 17467, Denver, CO 80217-0467

COMPUTER ED.

This month's column will be devoted to some consumer tips for those interested in taking any form of adult education class. In a later column, we will focus on how teachers can better describe their classes in order to target their best audience.

All adult classes require the dual investment of time and money. This price is paid by both the student and the teacher. Students who are dissatisfied cost teachers greatly in negative advertising. Therefore, I feel it is important to begin with the student's process.

1> A student who has narrowed his interest, is much more likely to find satisfaction in a course than one who has not. For example: A student looking for a Pascal, computer language overview, or a spread sheet class, has taken the time to narrow the field of interest. For the less educated beginner, general introductory courses or reading in the same vein, help in later informed decisions.

2> Once the subject is chosen, the next step is to decide the source for the class. Private schools, individuals, community colleges, 4-year colleges and universities all provide classes.

3> Once the source is narrowed, interview all teachers. As the consumer, you can get a really good impression of how you would be able to work with this person. At this time, you should explore specifics about facilities, location, background, previous students and perhaps even references. This last point is especially important when dealing with expensive, long term classes.

4> Now that you have narrowed your choices, and hopefully you have more than one left, it is time to pull out your schedule. Are these teachers having classes at a convenient time? Can you fit their time to your schedule? Transportation time can become a real factor in this process, although I would urge you not to cross off your first or second choice teacher JUST because of location. A poor location may be negotiable, the class may be given elsewhere in a few months, or your schedule may change.

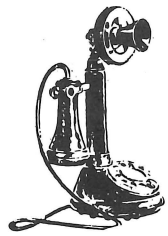
5> Now that you have made your choice, call the teacher, confirm your choice, and follow any required registration procedures. When dealing with some institutions, a very formal registration procedure must be followed. Usually, this requires the filing of papers from one month to a semester or more before the class starts. Therefore, it is wise to begin this decision making process early.

Best of luck. --Maureen Brucker

* * * * * * * * * * * * * * * * * * * *

>>> SPREAD SHEETS <<<

On March 10th, Bob Hein will offer this workshop to both Apple Pi members and non-members.
LOCATION: Ramada Inn at Kipling and I-70
TIME: 9 AM to 4 PM
FEE: Members: $10
Non-Members: $15
REGISTRATION: contact Bob at (303) 424-8357 A message could also be left for Bob Hein on the Apple Pi bulletin board: 469-7541.



TELECOMMUNICATIONS
DENVER BBS NUMBERS

==========

Apple Pi	469-7541
Aurora-Net	343-8401
The Chess Board	798-7620
Cheyenne Mountain	753-1554
GBBS II	693-1064
Lakewood RCPM/RBBS	985-1108
The Neutral zone	985-9184
Off the wall	443-3367
PETULA	232-8509
RB Robot/IBMPC	279-5657
RCPM/RBBS	499-9169
Remote North Star	444-7231
TBBS#1 (Apparat)	741-4071
TBBS#2 (UFONET)	278-4244
TBBS-Software Review	695-4518
The T-Zone	427-7114

==========

For corrections, contact T.R. Hein
at (303) 424-8357

B B S COMMANDS

The following is a list of all the commands and there uses on the Apple Pi BBS. If you still have a question or problem with a command after reading this then please leave "Feedback" to the Sysop.

? : The question mark will give a list of available commands most any place in the system.

B : The "B" will send you to the main bulletin board. From here you can type a question mark to see a list of commands.

A : This will return you to back to the main menu.

: Entering a number of a bulletin on the board will display that bulletin.

N : This retrieves new bulletins that have been left since the last time you called.

F : You can list all the bulletins starting at a certain one.

K : Kills bulletins you have left.

L : Leave a bulletin to for all users to see. You will be dropped into the editor to enter your message.

S : This scans message subjects starting at a certain one. You will be asked if you wish to "Mark Messages ?" when before you start scanning. If you say "Yes" then you can enter "Y" or "N" after each subject you indicate if you wish to read it later.

M : With this, you can retrieve the bulletins you marked with the the "S" command.

After using either "New", "Forward", or "Marked" retrieval, you will get a line of options displayed. You can use "R" to Re-Read the bulletin. "Q" will exit back to the bulletin menu. "N" or a [RETURN] will go to the next bulletin. If you press "A" you will have to option to send E-Mail to the person who left the bulletin you are looking at. You will then go back to the line of options.

The following commands are for the editor. Whenever you use a command such as Send E-Mail or Leave Bulletin then you will have to use the editor to create the message.

O : This stands for "Ok". It says that your message is complete and you wish to send it.

CONT....

SOFTWARE CLASS

SUBJECT: Introduction to Spreadsheets
DATE: Saturday, March 10, 1984
LOCATION: Ramada Inn - I-70 & Kipling
TIME: 9:00 a.m. to 4:00 p.m. (one hour lunch)
INSTRUCTOR: Bob Hein
CLASS SIZE: 10 minimum, 25 maximum
EQUIPMENT REQUIRED: Apple II+ or IIe with 64K memory, monitor, one disk drive, 2-3 blank disks
FEE: Apple Pi members $10.00, non-members $15.00 - payable at time of registration
REGISTRATION: Contact Bob Hein directly at an Apple Pi meeting or in the evenings at 424-8357

COURSE DESCRIPTION: Introductory level class for individuals new or just starting to work with spreadsheets on a computer. Course will include creation of a representative sample spreadsheet for a household or small business application. There will be step-by-step instructions on spreadsheet applications and demonstrations of various spreadsheets which are commercially available. Spreadsheets to be compared include: The Spreadsheet, Multiplan, Visicalc, Basicalc, and an Apple Pi version. Necessary software for the course will be provided for use during the course.

Course will be for STUDENTS ONLY, observers will not per permitted in the lecture room.

- - - -

BBS....

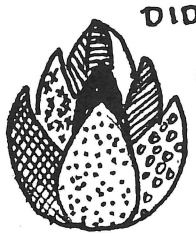
S : You can send E-Mail to a user with this command. Just enter the name of the user or there user number. The user number if the number that is displayed next to

there name on bulletins they post. It is also listed next to their in the user list command. If you entered their number, then their name will be shown and verification asked. If you entered there name, the message "Verify User ?" will be displayed. If you answer "YES" then you will have a wait while the system checks the name against all the users on the system to see if that user is really on it. Once you are done with the name or number, then you just use the editor to enter the message and it will be send to them.

T : This command will terminate your connection from the system. Your mail will be deleted and your stats updated.

U : Using this command, you can get a list of all or some of the system users. Next to all users will be listed their user number that can be used for sending mail.

! : Their is an uploading section on this section. It is not normally available. If you have something to upload, then let the Sysop know via "Feedback" and he will get back with you.



SCREENWRITER II UPGRADE FOR THE APPLE //e

Irv Haas
The Apple Pickers, Inc., October 1983

For those who purchased Screenwriter II for use with the Apple II+, but now have an Apple //e, Sierra On-Line has provided program changes to upgrade your program disk without the need for sending (and paying) for an upgrade.

These program changes enable one to use the Shift Kay in its normal mode as it was designed for the //e. Please follow these instructions in order:

1. Turn off the computer and reboot Screenwriter II. Choose option number 3 from the main menu, then EXIT to BASIC.

2. Put the LOCK on (Caps Lock).

3. Type the following lines:

```
7031 POKE 16481,208
7032 POKE 16482,4
8031 POKE 5211,208
8032 POKE 5212,4
9031 POKE 17383,234
9032 POKE 17384,234
9033 POKE 17385,234

SAVE APP2

RUN CUSTOMIZEA
```

4. This takes you into CUSTOMIZE. Answer all of the questions, as you normally would. DO NOT say that you have a Shift Key modification.

5. When you complete CUSTOMIZE, you can go into a text file in Editor. In order to use the Shift Key for single UPPERCASE letters, unlock the caps lock. You can lock into UPPERCASE with the caps lock when you are entering a string of UPPERCASE letters.

6. All entries typed from the keyboard in anything but the text page of Editor will require the caps lock to be depressed.

BBS...

A : If you decide you don't want to send your message for some reason than you can abort from sending it.

N : If you messed up your message and wish to redo it, then use this command to start again.

C : This will let you append onto your current text.

L : You can list your message in part or in whole. You will be asked for a starting line. If you press [RETURN] then the entire message will be listed. If you enter a starting line, then an ending line will be requested. If you enter [RETURN] then it will list from the starting line to the end.

E : You can edit a line of your message by entering its line number and retyping that line. If you enter "L" then you can list the message using the same form as for the "L" command above, but line numbers will be shown.

I : Using this command you can insert before a the line number you specify. You can use the "L" command the same way you do with Edit.

D : By entering a line number(s) you can delete one or more lines. If you enter [RETURN] for the starting line, then the attempt will be aborted. You can also issue the "L" command which works as it does with Edit.

The rest of the system commands are as follows:

C : Chat with the Sysop. You need only issue this command once as the sysop is constantly reminded that you wish to chat with him.

D : With this command, you can download public domain programs from this system. If you have a Micromodem][and called using the built in firm- ware then you can have the system save the files to your disk for you. If you are using some other modem, then you need to use a terminal program with a capture buffer such as "Ascii Express Pro". After you save it, capture it to disk and "EXEC" the file.

E : The system contains a list of stats on you, and general system stats. These include the last date you called, what caller number you are, your security level and some of the options active.

F : You can directly send comments to the Sysop using "Feedback". You will use the editor make create your message. The Sysop will be able to reply to the message.

G : You can look at the list of files the system has that concern certain topics. Enter the number you wish to look at or [RETURN] when done.

H : General system help.

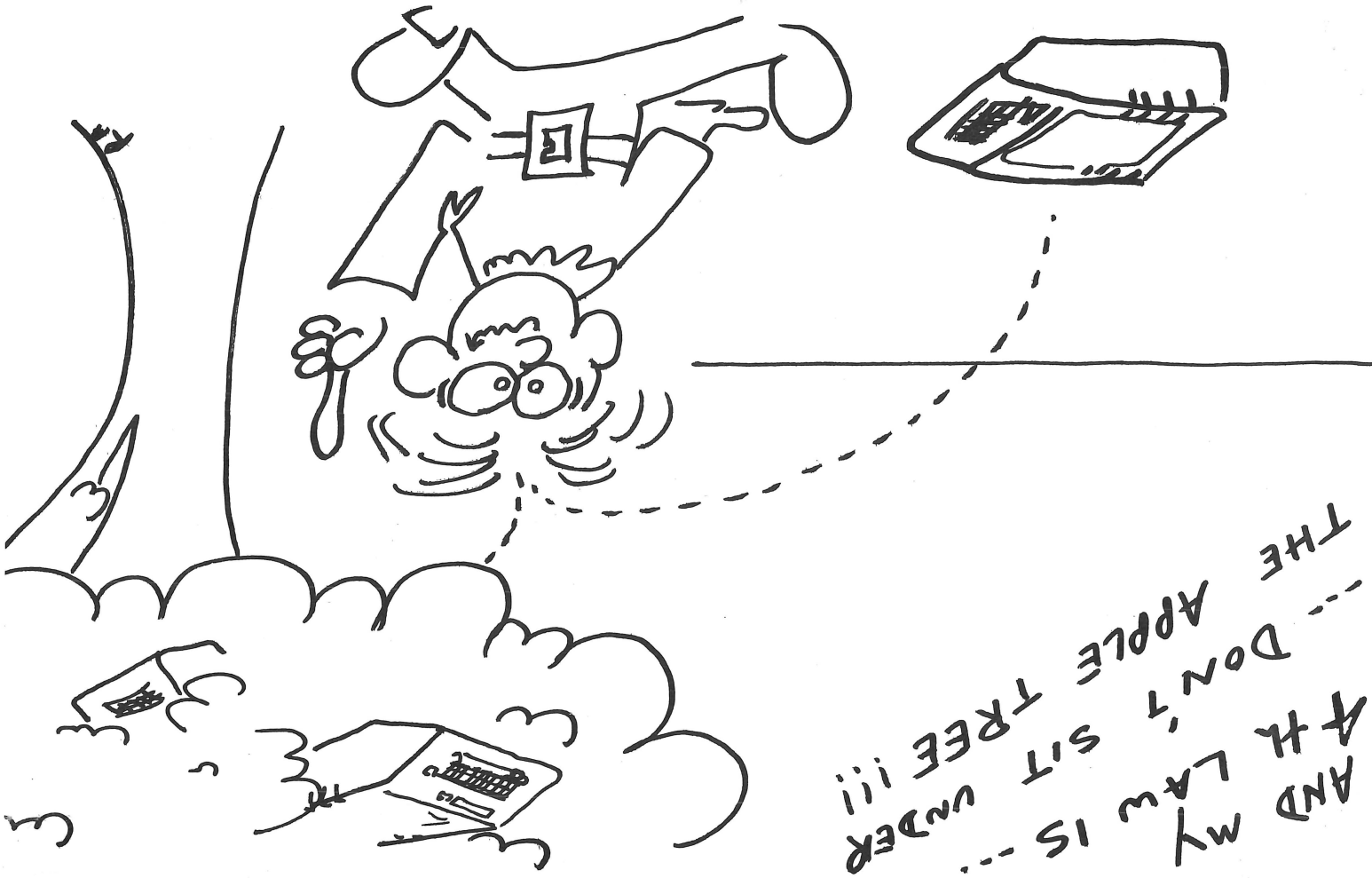
I : This will list information about the system such as software type: GBBS][, hardware configuration, and system sponsor.

N : By changing the nulls value, you change the delay that follows a [RETURN].

O : This will give a list of other bulletin board telephone numbers.

R : If you have mail waiting and wish to read it, use this command. After each letter you will have the option to "Auto Reply", "Continue", or "Re-Read" each letter. Auto-Reply will will let you write a letter back to the person who send you the letter.

CONT.....



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